



CODE WORKS!

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Spring 2013

WORDS FROM DIRECTOR IRVIN J. POKE, AIA

1

Words from the Director

2

Buildings on the Same Lot

Revised Building Permit Application

3

Permits Associated with Boiler Installations

Power Source Requirements for Electric Motor Driven Fire Pumps

4

The 2009 Insulation Requirements for HVAC Ductwork

5

2012 PA 525 Amendment to the Land Division Act

Michigan Codes & Rules in Effect

6

Annual Affidavit for Large Facilities

7

BCC Contact Information

Board and Commission Meetings

8

License Examination Dates

BCC Online Services

By now, most of the industry knows that Robert G. Konyndyk, Jr. has retired from the Bureau of Construction Codes. Bob was Chief of the Plumbing Division for more than 25 years. As chief of the division, he oversaw the development of the Michigan Plumbing Code, state plumbing inspectors, and the licensing process for more than 15,000 plumbing professionals. Bob started as a plumbing inspector in April 1985 and was assigned to the county of Alpena. He was appointed chief of the plumbing division in March 1988. Prior to employment at the Bureau, Bob owned his own plumbing contracting firm for 10 years, serving as a licensed Master Plumber and Mechanical Contractor.

He has served on numerous plumbing code committees, and in associations such as the American Society for Testing Materials International, International Code Council, and National Sanitation Foundation International, dealing with public health and plumbing issues since 1985. One of Bob's greatest accomplishments was being one of three representatives chosen to initially develop the International Plumbing Code (first draft, Joint Model Plumbing Code) in 1994 as the Building Officials and Code Administrators representative. He enjoyed teaching code as a state administrator, has traveled to several states as an instructor for different code groups, and has recently been involved in writing code training books. His goal has been to contribute toward greater uniformity and stability in national code issues.

Bob has always demonstrated the highest level of professionalism and concern for the industry. His vast knowledge of plumbing was evident when providing guidance to the Plumbing Board and presenting products for approval to the Construction Code Commission. Bob always cared about those around him, and often went above and beyond for his staff and others.

I have found Bob to be a very honorable man. He has helped me to grow into my role as a leader, as I watched him lead with compassion. Bob, I want you to know that I have always had the greatest respect for you and the work you do for the plumbing industry. I wish you well in this new chapter of your life. Take care of yourself and your family.



PLAN REVIEW DIVISION

BUILDINGS ON THE SAME LOT

By George Herrity, Assistant Chief
Plan Review Division

Chapter 5 of the 2009 Michigan Building Code (MBC) governs the height and area of buildings. The allowable height, number of stories, and area of a building are established based on the use and construction type of the building. An increase to the area of a building is allowed if it is equipped with an automatic sprinkler system throughout the building and also for the amount of building perimeter that is open to a public way or an open space. This public way or open space is required to have a minimum width of 20 feet.

Chapter 7 of the MBC governs the materials, systems, and assemblies for fire-rated construction to safeguard against the spread of fire and smoke within a building and the spread of fire to and from a building. For buildings on the same lot, the required exterior wall and opening protection is determined by the fire separation distance between the buildings.

The distance required between buildings on the same lot (in Chapter 5) for increasing building area is measured from the exterior face of one building to the exterior face of the other building. This area increase is based on access for fire service personnel. The more perimeter of a building that can be accessed the larger the building is allowed to be. The fire separation distance required between buildings in Chapter 7 is based on one building setting fire to the other building and is measured differently than how it is measured in Chapter 5. This distance is measured to an imaginary line between the two buildings where the use and construction type of each building governs the distance to this imaginary line and the total of these two distances equals how far apart these buildings need to be.

Please check for any local setback requirements which may apply. Contact the Plan Review Division at (517) 241-9328 or bccplanreviewcodemail@michigan.gov with questions.

BUILDING DIVISION

REVISED BUILDING PERMIT APPLICATION

By Larry Lehman, Chief
Building Division

The Bureau of Construction Codes, Building Division, has revised its building permit application form and companion instructions. The application and instructions can be accessed on the Bureau's website at www.michigan.gov/bcc. On the left side of the screen, select "Forms" then "Building Division."

In revising the application form, the Bureau reviewed changes to the code and considered suggestions from various committees, our customers, and staff. The majority of the changes occur on the second page of the application, Sections IV and V, to accurately reflect the use and occupancy classifications in the Michigan Building Code (MBC) and the buildings regulated by the Michigan Residential Code. Section V.B. was updated to more accurately reflect the types of construction classification established by Chapter 6 of the MBC. A significant addition on page three is the requirement for the owner to sign the permit as required by Section 10 (2) of the Stille-DeRossett-Hale Single State Construction Code Act, 1972 PA 230.

Local enforcing agencies should periodically review their building permit application to ensure all information required by Section 10 of 1972 PA 230 is provided on the application.

Contact the Building Division at (517) 241-9317 or bccbldg2@michigan.gov with questions.

BOILER DIVISION

PERMITS ASSOCIATED WITH BOILER INSTALLATIONS

By William Vallance, Chief
Boiler Division

It is commonly believed that a boiler installation permit from the Boiler Division will cover all aspects of a boiler installation including any code inspections. The fact is, however, up to *four* permits may be required to cover all aspects of mechanical, plumbing, and electrical work associated with the installation of hot water heat, hot water supply, steam heat, or process boilers under the Boiler Act, 1965 PA 290.

The required permits include:

1. A boiler installation permit.
2. A mechanical permit for associated work such as, venting, gas piping, combustion air, and process or hydronic piping.
3. An electrical permit for the installation of the emergency shut down switches, lockable disconnects, and associated control wiring external to the boiler.
4. A plumbing permit for the installation of any potable water supply to the boiler system up to and including the backflow preventer.

Prior to obtaining an electrical, mechanical, or plumbing permit, you may wish to refer to the Statewide Jurisdiction List to determine the appropriate enforcing agency. This information is updated regularly and can be found at: www.michigan.gov/bcc.

Contact the Boiler Safety Division at (517) 241-9334 or bccblr@michigan.gov with questions.

ELECTRICAL DIVISION

POWER SOURCE REQUIREMENTS FOR ELECTRIC MOTOR DRIVEN FIRE PUMPS

By Dan O'Donnell, Chief
Electrical Division

There are many things to consider when designing, installing, and inspecting electrical systems associated with electric motor driven fire pumps. Article 695.3 in the 2008 edition of the NEC/NFPA 70, specifies that fire pumps shall have a reliable source of power. Article 695.3(A) (1) and (2) specifies two types of electrical systems that may be considered to be reliable. Other factors that need to be taken into consideration with respect to determining whether power is deemed to be reliable can be found in other NFPA standards including NFPA 20-2007 and NFPA 850-2005. A typical service installation for a fire pump would be a separate connection in a utility-owned transformer secondary with those service conductors dedicated to the fire pump only. It is also permissible to tap ahead of the service disconnecting means; however, that connection shall not be located within the same cabinet, enclosure, or vertical section as the service disconnecting means. Proper labeling of both the building and fire pump disconnecting means shall be done in accordance with article 230.2.

When a transformer and/or primary service is owned by the customer the provisions set forth in article 695.3 (B) are applicable. In addition if a transformer is necessary to supply power to the fire pump it may only supply loads directly related to the fire pump system as required by 695.5. There are conditions where a customer-owned transformer may supply other loads as indicated in 695.5 (C); however, the installation applies only to multi-building campus style complexes as described in 695.3 (B) (2) and must have the approval of the enforcing agency.

Electric motor driven fire pump installations require much thought and planning prior to beginning the work. There are many reference standards that deal with specific items related to fire pump installation including NFPA 20, 72, and 850; UL 1724; and others. The 2011 edition of the NEC/NFPA 70 has many changes and clarifications in Article 695. Designers, plan reviewers, and installers need to be cognizant of the electrical code requirements as well as the different reference standards with respect to these installations. Doing so may avoid costly changes to the electrical installation and help assure the timely completion of the project.

Contact the Electrical Division at (517) 241-9320 or bccelec@michigan.gov with questions.
www.michigan.gov/bcc - Page 3

MECHANICAL DIVISION

THE 2009 INSULATION REQUIREMENTS FOR HVAC DUCTWORK

By Norwood Bates, Senior Mechanical Inspector
Mechanical Division

This article is to assist in the clarification of the required R values for residential duct insulation.

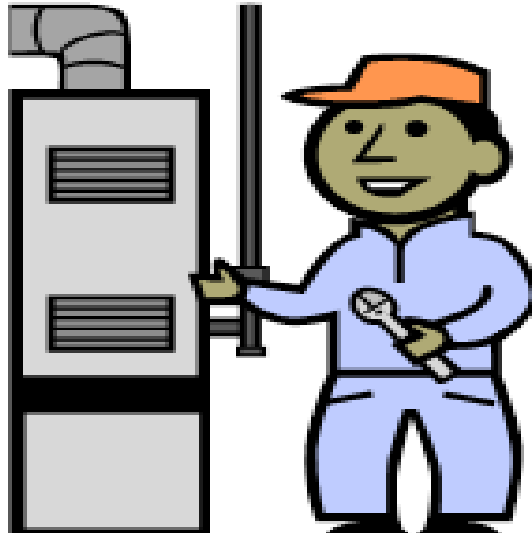
The 2009 Michigan Residential Code, Section M1601.4.5 Duct insulation, requires that all portions of the air distribution system shall be installed in accordance with M1601 and be insulated to an installed R-6 when system components are located within the building but outside of the conditioned space. The insulation value of R-8 shall be required when the ductwork is located outside the building (outside of the thermal envelope). When located within a building envelope assembly and adjacent to the exterior, at least R-8 shall be applied between the duct and that portion of the assembly farthest from the conditioned space.

The 2009 Michigan Uniform Energy Code (MUEC) supports the residential code requirements. Chapter 4 – Residential Energy Efficiency, Section 403.2.1 Insulation (Prescriptive), requires that residential supply ducts located in attics shall be insulated to a minimum of R-8 insulation value. All other ducts shall be insulated to a minimum of R-6.

Chapter 2 of the 2009 MUEC, Section 202 General Definitions, defines the building thermal envelope as the basement walls, exterior walls, floor, roof and any other building element that enclose a conditioned space. This boundary also includes the boundary between conditioned space and any exempt or unconditioned space.

In summary, all ductwork located on the exterior wall cavities shall require an R-8 insulation value on the side of the duct that faces the exterior of the building. Unconditioned attics and crawl spaces shall also require an insulation value able to meet the requirements of the Michigan Uniform Energy Code.

Contact the Mechanical Division at (517) 241-9325 or bccmech@michigan.gov with questions.



Providing for Michigan's Safety in the Built Environment

OFFICE OF LAND SURVEY AND REMONUMENTATION

2012 PA 525 AMENDMENT TO THE LAND DIVISION ACT

By Chris Beland, P.S., Director

Office of Land Survey and Remonumentation

When the Michigan Legislature passed 2012 PA 525 amending the Land Division Act, 1967 PA 288, (LDA) effective December 28, 2012, the main purpose was to add the following language shown in **bold**:

Sec. 109. (1) A complete application for a proposed division shall be approved if, in addition to the requirements of section 108, all of the following requirements are met: **(h) The division does not isolate a cemetery so that it does not meet the requirements of either section 102(j)(i) or (ii).**

Sec. 182. (4) The governing body shall reject a plat in any of the following circumstances: **(d) The plat isolates a cemetery so that it does not meet the requirements of either section 102(j)(i) or (ii).**

The House Fiscal Agency's Legislative Analysis of the bill dated March 25, 2012, identifies the need for the amendment as follows:

The Apparent Problem:

Throughout Michigan, private cemeteries are located on family farms bearing the remains of honored ancestors buried there during the past two centuries.

When farms and other rural acreage are subdivided to make way for development, access to the historic private cemeteries can be threatened, and in some cases denied completely. For example, access to the Potter Cemetery in Ash Township of Monroe County—a cemetery having the remains of more than 80 of the area's founding families, including seven Civil War veterans—was denied for nearly eight years by surrounding property owners.

See: http://monroe.lib.mi.us/community_info_ash_township_potter_cemetery.htm for more information about Potter Cemetery.

Currently, the LDA is vague as to the required ingress to and egress from a cemetery. This legislation has been introduced to ensure that all cemeteries are accessible in the future.

The purpose of these amendments is two-fold: 1) To guarantee that private cemeteries remain accessible despite division or subdivision of the land around them; and 2) To prevent divisions or subdivisions from being approved by a municipality where their creation would cause a cemetery to be landlocked.

Contact the Office of Land Survey and Remonumentation at (517) 241-6321 or bccolr@michigan.gov with questions.

MICHIGAN CODES & RULES CURRENTLY IN EFFECT

Boiler Rules	07/30/2010
Building/Residential Codes (Part 4)	03/09/2011
Building Officials, Plan Reviewers, and Inspectors	04/24/2013
Electrical Code (Part 8)	12/02/2009
Elevator Safety - General	06/21/2010
Manufactured Housing General Rules	09/02/2008
Mechanical Code	10/21/2010
Plumbing Code (Part 7)	08/20/2010
Rehabilitation Code	03/09/2011
Subdivisions of Land	06/16/2008
Uniform Energy Code	03/09/2011

FOR CODE/RULE UPDATES - Visit [BCC's website](http://bccswebsite) to monitor updates on code review processes.

PLUMBING DIVISION

ANNUAL AFFIDAVIT FOR LARGE FACILITIES

By Andy Neuman, Assistant Chief
Plumbing Division

Facilities such as manufacturing plants, hospitals, and schools that require the regular employment of a full-time master plumber must obtain an annual affidavit to secure plumbing permits. The State Plumbing Act, 2002 PA 733, MCL 338.3551, Section 41(3), states:

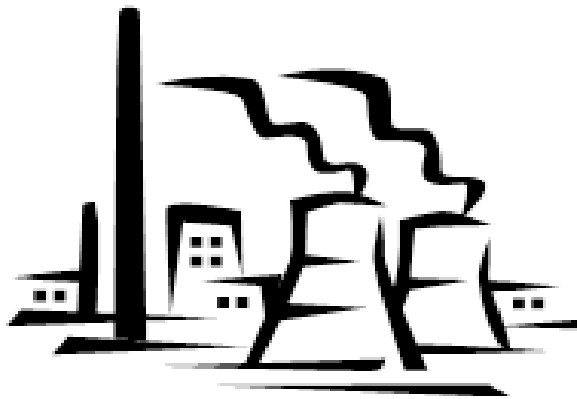
“In those instances where business or industrial procedure requires the regular employment of a full-time licensed master plumber, a licensed master plumber shall be authorized to secure permits for installations of plumbing on the premises owned or occupied and used by the business provided the licensed master plumber physically supervises the plumbing work and represents only the business or industrial employer.”

Plumbing inspectors are reminded to confirm the facility has an up-to-date annual affidavit when conducting inspections. Affidavits are issued for an annual term of May 1 to April 30.

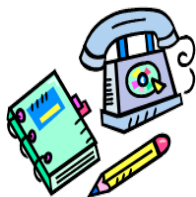
The annual affidavit form is furnished by the Bureau of Construction Codes, Plumbing Division, and shall be signed by both the employer and the licensed master plumber. If the licensed master plumber's employment is terminated, a new affidavit must be filed with the division before permits will be issued. The affidavit contains the following information:

- The name and business address of the person employing the licensed master plumber.
- The name, address, and license number of the licensed master plumber.
- A statement to the effect that the employer and licensed master plumber will comply with the provisions of the act regulating installation of plumbing in this state.

If you have not received a renewal notice for your affidavit, or for questions concerning this article, please contact the Plumbing Division at (517) 241-9330 or bccplbg@michigan.gov with questions.



Providing for Michigan's Safety in the Built Environment



BCC Contact Information

TELEPHONE NUMBERS:

Administration (517) 241-9302
 Office of Administrative Services (517) 335-2972
 Office of Management Services (517) 241-9313
 Boiler Division (517) 241-9334
 Building Division (517) 241-9317
 Act 54 Registration (517) 241-9317
 Electrical Division (517) 241-9320
 Elevator Safety Division (517) 241-9337
 Mechanical Division (517) 241-9325
 Office of Land Survey & Remonumentation (517) 241-6321
 Plan Review Division (517) 241-9328
 Plumbing Division (517) 241-9330

FACSIMILE NUMBERS:

Administration & Office of Administrative Services (517) 241-9570
 Office of Management Svcs, & Plumbing Division (517) 373-8547
 Building, Electrical, Mechanical, Plan Review (517) 241-9308
 Office of Land Survey & Remonumentation, Elevator Safety & Boiler Divisions (517) 241-6301

MAILING ADDRESSES:

P.O. Box 30254 (First Class Mail **without** currency)
 P.O. Box 30255 (First Class Mail **with** currency)
 Lansing, MI 48909

COURIER OTHER THAN US POSTAL SERVICE:

2501 Woodlake Circle, Okemos, MI 48864

EMAIL ADDRESSES:

Administration - bccinfo@michigan.gov
 Office of Administrative Services - bccoas@michigan.gov
 Office of Management Services - bccpermits@michigan.gov
 Boiler Division - bccblr@michigan.gov
 Building Division - bccbldg2@michigan.gov
 Electrical Division - bccelec@michigan.gov
 Elevator Division - elevsafety@michigan.gov
 Mechanical Division - bccmech@michigan.gov
 Office of Land Survey & Remonumentation - bccolsr@michigan.gov
 Plan Review Division - bccplanreviewcodemail@michigan.gov
 Plumbing Division - bccplbg@michigan.gov



Board and Commission Meetings

MEETING

DATE

TIME

LOCATION

Barrier Free Design Board	May 17, July 19, Sept 20	9:30 am	Okemos – Conf Room 3
Board of Boiler Rules	June 11, Sept 10, Dec 10	9:30 am	Okemos – Conf Room 3
Construction Code Commission	July 10, Oct 2	9:30 am	Okemos – Conf Room 3
Electrical Administrative Board	May 23, Aug 22, Nov 7	9:30 am	Okemos – Conf Room 3
Elevator Safety Board	June 7, Aug 23, Nov 1	9:30 am	Okemos – Conf Room 3
Manufactured Housing Commission	June 19, Aug 21, Oct 16	10:00 am	Okemos – Conf Room 3
Board of Mechanical Rules	May 15, Aug 14, Nov 27	9:00 am	Okemos – Conf Room 3
State Boundary Commission	June 12, Aug 7, Sept 11	1:30 pm	Okemos – Conf Room 3
State Plumbing Board	June 4, July 17, Sept 17	10:00 am	Okemos – Conf Room 3

Dates and times are subject to change. Visit the [BCC website](http://www.michigan.gov/bcc) for updates.

ATTENTION READERS!

If you know of an organization or individual that would benefit from the information posted in BCC's newsletter, please direct them to our website at www.michigan.gov/bcc. Under the "Publications, Bulletins & Advisories" heading, click on the Code Works! link for more information on how to subscribe and receive an electronic notification of when each quarterly newsletter is posted.

License Examination Dates

BCC ONLINE SERVICES

[Manufactured Home Affidavit of Affixture](#)
[Online Lookup](#)
[Online License Search](#)
[Disciplinary Action Report](#)
[Easy Access to Permit & License Verification](#)
[Statewide Search for Subdivision Plats](#)
[Statewide Search for Remonumentation Data](#)
[Building System Approval Reports](#)
[Online Code Training Series](#)
[BCC Field Inspection Survey](#)

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[Codes & Standards Order Form](#)
[Statewide Jurisdiction List](#)
[Local School Construction Enforcement List](#)

CIVIL SERVICE WEBSITE

[State Job Postings](#)

Code Works! is a quarterly publication of the Bureau of Construction Codes within the Department of Licensing and Regulatory Affairs

Editor in Chief

Keith Lambert

Editors

Deborah Young
Amie Ostrander

Created under the authority of 1972 PA 230.

EXAMINATION	DATE	LOCATION	DEADLINE
Boiler Installer and Repairer	June 5 & 6	Okemos	May 10
	Sept 4 & 5	Okemos	Aug 9
	Dec 4 & 5	Okemos	Nov 8
Fire Alarm Spec. Tech./Sign Spec.	July 9	Okemos	June 11
	Nov 12	Okemos	Oct 15
Electrical - Journeyman	May 30	Lansing	May 2
	July 16	Escanaba	June 18
	Aug 29	Lansing	Aug 1
	Nov 21	Lansing	Oct 24
Electrical - Master	May 30	Lansing	May 2
	July 16	Escanaba	June 18
	Aug 29	Lansing	Aug 1
	Nov 21	Lansing	Oct 24
Electrical - Contractor	July 9	Okemos	June 11
	July 16	Escanaba	June 18
	Sept 24	Okemos	Aug 27
	Nov 12	Okemos	Oct 15
Elevator Contractor/Journeyperson Certificate of Competency	June 7	Okemos	May 10
	Aug 23	Okemos	July 26
	Nov 1	Okemos	Oct 4
Mechanical Contractor	June 11	Lansing	May 10
	Sept 10	Lansing	Aug 9
	Dec 10	Lansing	Nov 8
Plumbing - Contractor	June 12	East Lansing	
	July 18	Escanaba	
	Sept 25	East Lansing	
	Dec 18	East Lansing	
Plumbing - Master and Journey	June 5	East Lansing	
	July 18	Escanaba	
	Sept 18	East Lansing	
	Dec 4	East Lansing	

Dates and times are subject to change. Visit the [BCC website](#) for updates.

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